



MANIPULATIVE PERFORMANCE TEST

Procedures Handbook 4300

HOSE APPLIANCES &
TOOLS

TOPIC/EQUIPMENT: HOW TO OPERATE AN IN-LINE FOAM EDUCTOR

CATEGORY: Performance Exam

POINTS POSSIBLE: 100

TIME ALLOWED: Not a timed event

BEHAVIORAL OBJECTIVE:

Condition: An engine with the pump operating at 150 P.S.I. An in-line foam eductor, 200' of 1-1/2" or 1-3/4" x 50' hose, 2-1/2" x 1 1/2" adapter, 95 GPM variable combination or foam nozzle and spanner wrench, and outdated or demo foam concentrate in a five (5) gallon container

Behavior: The student shall demonstrate how to produce a foam stream using an in-line eductor

Standard: With a minimum of 80% accuracy

MATERIALS NEEDED:

- Engine
- Structure fire PPE per CAL FIRE policy
- 1-1/2" or 1-3/4" fire hose
- 2 1/2" x 1 1/2" adapter
- In-line foam eductor
- Outdated or demo foam concentrate in five (5) gallon containers
- Foam nozzle or 95 gpm combination fog nozzle/bale
- Spanner wrench
- One (1) scoresheet per student
- One (1) clipboard
- Performance exams
- Red pens

PROCEDURES: The examination will start when the student either verbally or by conduct performs any step of the performance examination upon the proctor's command.



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SCORING:

Points will be deducted for each step omitted, performed improperly, or performed out of sequence. The firefighter must perform each action safely and competently with a minimum amount of errors. If the evaluator feels that the firefighter was unsafe, damaged apparatus, equipment or placed personnel in danger, performed an action incorrectly or missed required elements, this constitutes a failure of the performance exam. Failures will be documented.

SPECIAL NOTES:

Before the examination begins, the firefighter will be allowed to ask clarifying questions and inspect the equipment. The firefighter will be wearing full structure fire PPE.

Once the examination begins the evaluator shall not answer any questions or intercede in anyway, unless safety violations occur that would injure personnel or damage equipment.

Score Sheet

HOW TO OPERATE AN IN-LINE FOAM
EDUCTOR

DATE ____ / ____ / ____ TEST # ____ RETEST # ____ UNIT # ____

STUDENT'S NAME _____

EVALUATOR'S NAME _____

STEPS AND PROCEDURES

	<u>POINTS</u>
1. Remove 2-1/2" pump discharge cap	<u>5</u>
2. Attach 2 1/2" to 1 1/2" reducer to pump discharge	<u>10</u>
3. Remove 50 or 100 foot section of 1-1/2" or 1 3/4" hose and attach to pump discharge	<u>10</u>
4. Attach male end of hose to in-line eductor	<u>10</u>
5. Attached 100 feet of hose to outlet of eductor	<u>10</u>
6. Attach foam or fog nozzle to hose	<u>5</u>
7. Extend hose removing all kinks	<u>5</u>
8. Return to eductor, set eductor to "foam or water"	<u>10</u>
9. Adjust metering valve to appropriate percentage rating	<u>10</u>
10. Insert eductor tube into foam concentrate container	<u>5</u>
11. Open appropriate discharge valve at engine slowly and fully.	<u>5</u>
12. Return to pump panel and set pressure at manufacturer's specification or 150 P.S.I.	<u>10</u>
13. Open nozzle and apply foam to simulated fire	<u>5</u>

4309.21

Score Sheet

HOW TO OPERATE AN IN-LINE FOAM
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POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE

COMMENTS: